

**WEST**

Generate Collection

Print

**Search Results - Record(s) 1 through 1 of 1 returned.**

☐ 1. Document ID: US 20030049443 A1 WO 200058536 A1 AU 200033282 A EP 1191131  
A1 KR 2001110680 A CN 1343269 A JP 2000608813 X US 6489026 B1

L1: Entry 1 of 1

File: DWPI

Mar 13, 2003

DERWENT-ACC-NO: 2000-664931

DERWENT-WEEK: 200321

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Fine and high crystalline carbon fiber for use as a filler material for various batteries, ceramics, and resins, has a fiber diameter of 1 micron or less and an Lc of 40 nm or less, and it contains boron

INVENTOR: ENDO, M; NISHIMURA, K

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SHOWA DENKO KK

SHOW

PRIORITY-DATA: 1999JP-0307867 (October 29, 1999), 1999JP-0081260 (March 25, 1999),  
1999US-145266P (July 26, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030049443 A1	March 13, 2003		000	D02G003/00
<u>WO 200058536 A1</u>	October 5, 2000	J	039	D01F009/127
AU 200033282 A	October 16, 2000		000	D01F009/127
EP 1191131 A1	March 27, 2002	E	000	D01F009/127
KR 2001110680 A	December 13, 2001		000	H01M004/96
CN 1343269 A	April 3, 2002		000	D01F009/127
JP 2000608813 X	July 9, 2002		000	D01F009/127
US 6489026 B1	December 3, 2002		000	D01F009/12

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MA MD  
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU  
ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE  
SL SZ TZ UG ZW AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO  
SE SI

## APPLICATION-DATA:

**BEST AVAILABLE COPY**

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030049443A1	July 26, 1999	1999US-145266P	Provisional
US20030049443A1	March 24, 2000	2000WO-JP01835	Div ex
US20030049443A1	September 21, 2001	2001US-0937079	Div ex
US20030049443A1	October 11, 2002	2002US-0268707	
US20030049443A1		US 6489026	Div ex
WO 200058536A1	March 24, 2000	2000WO-JP01835	
AU 200033282A	March 24, 2000	2000AU-0033282	
AU 200033282A		WO 200058536	Based on
EP 1191131A1	March 24, 2000	2000EP-0911361	
EP 1191131A1	March 24, 2000	2000WO-JP01835	
EP 1191131A1		WO 200058536	Based on
KR2001110680A	September 24, 2001	2001KR-0712124	
CN 1343269A	March 24, 2000	2000CN-0804720	
JP2000608813X	March 24, 2000	2000JP-0608813	
JP2000608813X	March 24, 2000	2000WO-JP01835	
JP2000608813X		WO 200058536	Based on
US 6489026B1	July 26, 1999	1999US-145266P	Provisional
US 6489026B1	March 24, 2000	2000WO-JP01835	
US 6489026B1	September 21, 2001	2001US-0937079	
US 6489026B1		WO 200058536	Based on

INT-CL (IPC): B32 B 9/00; D01 F 9/12; D01 F 9/127; D02 G 3/00; H01 M 4/02; H01 M 4/58; H01 M 4/96

ABSTRACTED-PUB-NO: WO 200058536A  
BASIC-ABSTRACT:

NOVELTY - A fine and high crystalline carbon fiber having a fiber diameter of 1  $\mu$ m or less and an Lc of 40 nm or less, is for use as a filler material for various batteries, ceramics, resins, etc.

DETAILED DESCRIPTION - The carbon fiber has a distance between layer faces d002 of 0.335 to 0.342 nm as measured by the X-ray diffraction method and has dimensions that satisfy the following relationship.

d002 less than 0.3444 - 0.0028 (log phi )

Lc = length along the c axis ;

phi = diameter of a carbon fiber.

USE - The carbon fiber is used as a filler for electrodes of batteries, for resins, ceramics, etc..

ADVANTAGE - The carbon fiber contained in electrodes of batteries improves their electric and thermal conductivity. The carbon fiber imparts strength to ceramics, resins, metals, etc.

CHOSEN-DRAWING: Dwg.0/2

TITLE-TERMS: FINE HIGH CRYSTAL CARBON FILL MATERIAL VARIOUS BATTERY CERAMIC RESIN  
DIAMETER MICRON LESS LC LESS CONTAIN BORON

DERWENT-CLASS: E36 F01 L03 P73 X16

CPI-CODES: E31-N04D; E31-Q01; F01-D09A; L03-E01B3;

EPI-CODES: X16-E09;

CHEMICAL-CODES:

**BEST AVAILABLE COPY**

## Chemical Indexing M3 \*01\*

## Fragmentation Code

C106 C730 C810 M411 M730 M782 M904 M905 Q130 Q323

Q453 Q454 Q606 R042

## Specific Compounds

05086K 05086Q 05086M

## Chemical Indexing M3 \*02\*

## Fragmentation Code

B105 B720 B744 B780 B803 B833 C106 C800 C802 C803

C805 C806 C807 M411 M730 M782 M904 M905 Q130 Q323

Q453 Q454 Q606 R042

## Specific Compounds

06458K 06458Q 06458M 20581K 20581Q 20581M

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-201394

Non-CPI Secondary Accession Numbers: N2000-492816

Full		Title		CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1			

[Generate Collection](#)[Print](#)

Terms	Documents
wo-200058536-\$.did.	1

Display Format: [FULL](#) [Change Format](#)[Previous Page](#)[Next Page](#)

AVAILABLE COPY